

Revised – 23 Oct 07

## NOAA GPS/GNSS Workshop

Dates: 24-25 October 2007

Location: GC402, David Skaggs Research Center (DSRC), Boulder, CO

Purpose: Conduct a technical forum for NOAA scientists/offices involved with GNSS

Outcome: Brief technical report to NOAA management on the NOAA use of GNSS

Website: <http://www.ngdc.noaa.gov/stp/gnssw2007/index.html>

### Wednesday: October 24th

#### Session 1 (Chair: Chris Fox): 08:30 – 10:00; Opening remarks, intros etc

08:30 – 09:00 Registration / Meet & greet

09:00 – 09:15 Welcome – Chris Fox & Tom Bogdan (local hosts)

09:15 – 09:30 Meeting logistics (agenda, restrooms, cafeteria, etc) – Bill Denig

09:30 – 10:00 GNSS and NOAA: Imagine the Possibilities – Dave Zilkoski

10:00 – 10:20 Break

#### Session 2 (Chair: Rich Snay): 10:20 – 12:00

10:20 – 10:40 Mike Aslaksen/NGS

10:40 – 11:00 Gerg Glang/OCS

11:00 – 11:20 Andria Bilich/NGS

11:20 – 11:40 Tom Landon/CO-OPS

11:40 – 12:00 David Turner/NESDIS

NGS Airborne & Field Operations  
GPS for NOAA Hydrographic  
Surveying

New Scientific Applications with  
Existing CGPS Capabilities –  
Earthquakes, Soil Moisture, and  
Environmental Imaging

GPS Requirements for the National  
Water Level Program

GPS Policy, Modernization, and  
International Cooperation

12:00 – 13:00 Lunch

#### Session 3 (Chair: Seth Gutman): 13:00 – 14:40

13:00 – 13:20 Tim Fuller-Rowell/SWPC

13:20 – 13:40 Joe Facundo/NWS

13:40 – 14:00 E. Araujo-Pradere/SWPC

14:00 – 14:20 John Kyle/WFO

14:20 – 14:40 John Kitching/NIST

US-Total Electron Content (US-  
TEC)

How NWS Radiosondes Compute  
Upper Level Winds Using GPS

On the Source of Steep TEC  
Gradients that Impact GPS

The GIS Side of GPS . . . NWS  
Grand Junction, CO

Chip Scale Atomic Clock

14:40 – 15:00 Break

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### Session 4 (Chair: Fran Coloma): 15:00 – 16:50

15:00 – 15:40	Gerry Mader/NGS	The Online Positioning User Services; Kinematic GPS Positioning; Why We Do Antenna Calibration
15:40 – 16:10	Steve Weiss/SPC	SPC Use of GPS IPW Data as an Input to Our Severe Weather Forecasting Mission (video link)
16:10 – 16:30	Valery Zavorotny/ESRL	Current State of GPS/GNSS Reflection Technique
16:30 – 16:50	Joe Kunches/SWPC	SWPC Products & Services

16:50 – End of Business Day

### 18:00 – 21:00 Optional Evening Social Time (Host: Bill Denig)

18:00 – 19:00 Dark Horse Saloon – Red Sox versus the Rockies  
19:00 – 21:00 Dinner at Carelli's of Boulder

## Thursday, October 25th

### Session 5 (Chair Andria Bilich): 08:30 – 10:20

08:30 – 09:00	Dave Zilkoski/NGS	Overarching Objectives of NOAA's National Height Modernization Program
09:00 – 09:20	Seth Gutman/OAR	Geodesy and Meteorology: Serendipity, Synergy & Reciprocity
09:20 – 09:40	Mihail Codrescu/SWPC	Influence of the Ionosphere on GPS
09:40 – 10:00	Rich Snay/NGS	Application of the Continuously Operating Reference Station (CORS) System
10:00 – 10:20	Dan Birkenheuer/ESRL	Use of GPS Data to Improve Understanding of GOES Water Vapor Measurements

10:20 – 10:40 Break

### Session 6 (Chair: Mihail Codrescu): 10:40 – 12:00

10:40 – 11:00	Lidia Cucurull/NWS	Use of GPS RO in Operations at NCEP
11:00 – 11:20	Steve Hilla/NGS	Reference Frames for GPS Applications and Research
11:20 – 11:40	Rich Koehler/FDTB	NWS and GPS/GNSS: Meeting the geospatial data needs in hydrology and meteorology
11:40 – 12:00	Tony Reale/SMCD	NOAA Satellite Product Integrated Validation

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Wrap-up

12:00 – 12:10 Wrap-up (Bill Denig)

END OF WORKSHOP